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ABSTRACT

This planning document was prepared in response to the basic responsibility of the State Board of Education regarding the planning and coordination of postsecondary education in Michigan. More specifically, it is the responsibility of the State Board of Education to develop a statewide system for collecting appropriate information from both public and private institutions as well as government agencies. This responsibility includes a system for projecting annually the enrollments of both public and independent colleges and universities in Michigan and development of a system for relating manpower needs of this state and the nation to existing institutional programs and services provided by public and independent postsecondary institution. Among other things, this report discusses trends in enrollments, degrees and awards conferred, equality of access to higher education, enrollment projections, and manpower requirements, and draws conclusions regarding the importance of comprehensive and continuous planning for postsecondary education and the need for adequate data. (Author)

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# Advising on Educational Needs in Michigan

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# ADVISING
# ON
# THE PROGRAM OFFERINGS AND SERVICES
# OF MICHIGAN COLLEGES AND UNIVERSITIES

Michigan Department of Education

1973

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# FOREWORD

This planning document entitled Advising on Postsecondary Enrollment Projections and Manpower Needs was prepared in response to the second basic responsibility of the State Board of Education regarding the planning and coordination of postsecondary education in Michigan. More specifically, it is the responsibility of the State Board of Education to develop a statewide system for collecting appropriate information from both public and private institutions as well as government agencies. This responsibility includes a system for projecting annually the enrollments of both public and independent colleges and universities in Michigan and development of a system for relating manpower needs of this state and the nation to existing institutional programs and services provided by public and independent postsecondary institutions.

Among other things, this report discusses trends in enrollments, degrees and awards conferred, equality of access to higher education, enrollment projections, manpower requirements and draws conclusions regarding the importance of comprehensive and continuous planning for postsecondary education and the need for adequate data.

This document has been reviewed and approved by the Department of Education Planning Council, the Council on Postsecondary Education, the State Board of Education and is, therefore, now being disseminated for public review.

JOHN W. PORTER
SUPERINTENDENT OF
PUBLIC INSTRUCTION

August, 1973

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## Part I

## INTRODUCTION

Planning for postsecondary education in Michigan requires an understanding of people and their needs.

This is reflected in Goal 1 of the State Plan for Higher Education in Michigan, which calls for "the orderly development of a comprehensive state system of education beyond the secondary level that will effectively and efficiently serve all the needs of the state". The goal obviously is to meet educational needs. The challenge is to develop a system that will do this in the most effective and efficient manner.

### State Plan Goals

Two general types of needs are identified in the State Plan. One involves "occupational abilities and skills". The other requires "social and cultural depth".

Eleven of the goals in the State Plan are directly related to these needs. Goal 6 stresses the responsibility of the State Board of Education to maintain updated long-range projections of enrollments; Goal 7 emphasizes needs of people not participating in higher education; Goals 8, 9, and 10 call for studies related to the liberal arts, professional training, and vocational or technical skills; Goals 11, 12, and 13 are designed to facilitate admission of students to institutions of higher education; and Goals 14, 15, and 16 involve financial assistance for students.

### Issues

This report addresses some of the issues related to the goals listed above. First, it provides information about trends in enrollments at both public and private institutions of higher education in Michigan. Second, it analyzes data

showing degrees and awards conferred at these institutions. Third, it calls attention to recent progress and expected developments concerning equality of access to higher education in Michigan. Fourth, it presents enrollment projections for the years 1973 to 1980. Finally, it concludes with a general discussion of changes in manpower requirements and possible effects on educational programs.

## Part II

## TRENDS IN ENROLLMENTS

Information about enrollments at institutions of higher education provides a framework for determining the number and basic characteristics of people who are currently taking advantage of educational programs.

### Enrollments by Type of Institution

As shown in Table 1, opening fall enrollment at institutions of higher education in Michigan, both public and private, climbed to a total of 406,037 in 1972. Included in this total were 218,727 students at public 4-year institutions; 136,657 students at public 2-year institutions; and 50,658 students at private institutions.

Table 2 reveals that the increase in total enrollments from 1971 to 1972 was 2,478 students or a figure substantially less than the corresponding increase from 1970 to 1971 or any other year since 1960. Furthermore, it can be seen that enrollments at public 4-year institutions actually declined for the first time in many years while enrollments at private institutions declined for the second year in a row.

Percentage changes from year to year are shown in Table 3. Among other things, it should be noted that the annual increase in total enrollments reached a high of 15.3 percent in 1965 and has declined steadily since that time, with the figure for 1972 amounting to less than one percent. Figures for the different types of institutions reveal that enrollments at public 4-year institutions decreased 0.7 percent from 1971 to 1972, enrollments at public 2-year institutions increased 3.5 percent and enrollments at private institutions decreased 1.3 percent.

Table 1

OPENING FALL ENROLLMENT,
BY TYPE OF INSTITUTION,
1960 to 1972 *

| Year | Total | Public 4-Year Institutions | Public 2-Year Institutions | Private Institutions |
|---|---|---|---|---|
| 1960 | 171,285 | 107,658 | 27,229 | 36,398 |
| 1961 | 181,979 | 112,082 | 31,619 | 38,278 |
| 1962 | 193,890 | 119,834 | 34,356 | 39,700 |
| 1963 | 207,725 | 129,113 | 38,001 | 40,611 |
| 1964 | 232,709 | 143,114 | 46,123 | 43,472 |
| 1965 | 268,424 | 162,312 | 58,216 | 47,896 |
| 1966 | 295,445 | 176,487 | 69,496 | 49,462 |
| 1967 | 317,867 | 187,708 | 79,698 | 50,461 |
| 1968 | 344,261 | 198,419 | 95,965 | 50,777 |
| 1969 | 374,381 | 208,323 | 115,299 | 50,759 |
| 1970 | 395,703 | 217,802 | 125,553 | 52,348 |
| 1971 | 403,559 | 220,165 | 132,059 | 51,335 |
| 1972 | 406,037 | 218,727 | 136,657 | 50,658 |

* Source - Higher Education General Information Survey

Table 2

CHANGE IN OPENING FALL ENROLLMENT,
BY TYPE OF INSTITUTION,
1961 to 1972*

| Year | Total | Public 4-Year Institutions | Public 2-Year Institutions | Private Institutions |
|---|---|---|---|---|
| 1961 | 10,694 | 4,424 | 4,390 | 1,880 |
| 1962 | 11,911 | 7,752 | 2,737 | 1,422 |
| 1963 | 13,835 | 9,279 | 3,645 | 911 |
| 1964 | 24,984 | 14,001 | 8,122 | 2,861 |
| 1965 | 35,715 | 19,198 | 12,093 | 4,424 |
| 1966 | 27,021 | 14,175 | 11,280 | 1,566 |
| 1967 | 22,422 | 11,221 | 10,202 | 999 |
| 1968 | 27,294 | 10,711 | 16,267 | 316 |
| 1969 | 29,220 | 9,904 | 19,334 | (18) |
| 1970 | 21,322 | 9,479 | 10,254 | 1,589 |
| 1971 | 7,856 | 2,363 | 6,506 | (1,013) |
| 1972 | 2,478 | (1,438) | 4,598 | (677) |

* Source - Higher Education General Information Survey

Table 3

PERCENTAGE CHANGE IN OPENING FALL ENROLLMENT,
BY TYPE OF INSTITUTION,
1961 to 1972**

| Year | Total | Public 4-Year Institutions | Public 2-Year Institutions | Private Institutions |
|---|---|---|---|---|
| 1961 | 6.2 | 4.1 | 16.1 | 5.2 |
| 1962 | 6.5 | 6.9 | 8.7 | 3.7 |
| 1963 | 7.1 | 7.7 | 10.6 | 2.3 |
| 1964 | 12.0 | 10.8 | 21.4 | 7.0 |
| 1965 | 15.3 | 13.4 | 26.2 | 10.2 |
| 1966 | 10.1 | 8.7 | 19.4 | 3.3 |
| 1967 | 7.8 | 6.4 | 14.7 | 2.0 |
| 1968 | 8.6 | 5.7 | 20.4 | 0.6 |
| 1969 | 8.5 | 5.0 | 20.2 | * |
| 1970 | 5.7 | 3.5 | 8.9 | 3.1 |
| 1971 | 2.0 | 1.1 | 5.2 | (1.9) |
| 1972 | 0.6 | (0.7) | 3.5 | (1.3) |

* Decrease of less than 0.05%

** Source - Higher Education General Information Survey

Table 4 shows the percentage distribution of students by type of institution for each of the years 1960 to 1972. Figures for the public 4-year institutions reveal a decrease from 62.9 percent of the total in 1960 to 53.8 percent in 1972. Enrollments at private institutions also decreased in relation to total enrollments during this period, shifting from 21.2 percent in 1960 to 12.5 percent in 1972. Public 2-year institutions, meanwhile, increased their share of total enrollments from 15.9 percent in 1960 to 33.7 percent in 1972.

Enrollments by Institution

Tables 5 to 7 offer a comparison of opening fall enrollments at each institution of higher education in Michigan for the years 1971 and 1972. Figures are shown on both a headcount basis and a full-time-equivalent basis.

It can be seen in Table 5 that three of the public 4-year institutions reported increases of more than 1,000 students on a headcount basis. These were Grand Valley State College, Oakland University, and the University of Michigan (Ann Arbor, Dearborn, and Flint combined). Two institutions, Central Michigan University and Wayne State University, reported decreases of more than 1,000 students on a headcount basis.

Examination of the figures in Table 5 showing full-time-equivalent students reveals that only the University of Michigan (three campuses combined) had an increase of more than 1,000 students. The three institutions with decreases of more than 1,000 were Eastern Michigan University, Wayne State University, and Western Michigan University.

Table 6 reveals that two of the public community and junior colleges had increases of more than 1,000 students on a headcount basis, namely Genesee Community College and Wayne County Community College. None of the institutions in this category reported a decrease of more than 1,000 students, although 13 of them reported decreases less than that.

Table 4

PERCENTAGE DISTRIBUTION OF OPENING FALL ENROLLMENT,
BY TYPE OF INSTITUTION,
1960 to 1972 *

| Year | Total | Public 4-Year Institutions | Public 2-Year Institutions | Private Institutions |
|---|---|---|---|---|
| 1960 | 100.0 | 62.9 | 15.9 | 21.2 |
| 1961 | 100.0 | 61.6 | 17.4 | 21.0 |
| 1962 | 100.0 | 61.8 | 17.7 | 20.5 |
| 1963 | 100.0 | 62.1 | 18.3 | 19.6 |
| 1964 | 100.0 | 61.5 | 19.8 | 18.7 |
| 1965 | 100.0 | 60.5 | 21.7 | 17.8 |
| 1966 | 100.0 | 59.7 | 23.5 | 16.8 |
| 1967 | 100.0 | 59.0 | 25.1 | 15.9 |
| 1968 | 100.0 | 57.6 | 27.6 | 14.8 |
| 1969 | 100.0 | 55.6 | 30.8 | 13.6 |
| 1970 | 100.0 | 55.1 | 31.7 | 13.2 |
| 1971 | 100.0 | 54.6 | 32.7 | 12.7 |
| 1972 | 100.0 | 53.8 | 33.7 | 12.5 |

* Source - Higher Education General Information Survey

Table 5

Comparison of Opening Fall Enrollment of Resident and Extension Students in Public Four-Year Colleges and Universities in Michigan, 1971 and 1972

| Institution | Headcount | | | Full-Time Equivalent | | |
|---|---|---|---|---|---|---|
| | 1971 | 1972 | + (-) | 1971 | 1972 | + (-) |
| Central Michigan University | 17,605 | 16,567 | (1,038) | 14,302 | 13,652 | (650) |
| Eastern Michigan University | 21,466 | 20,686 | (780) | 15,859 | 14,595 | (1,264) |
| Ferris State College | 9,162 | 8,867 | (295) | 9,660 | 9,622 | (38) |
| Grand Valley State College | 4,174 | 5,218 | 1,044 | 3,899 | 4,732 | 833 |
| Lake Superior State College | 1,712 | 1,890 | 178 | 1,540 | 1,684 | 144 |
| Michigan State University | 43,888 | 44,616 | 728 | 38,210 | 38,534 | 324 |
| Michigan Technological University | 5,002 | 5,018 | 16 | 5,364 | 5,437 | 73 |
| Northern Michigan University | 8,167 | 8,053 | (114) | 7,366 | 6,916 | (450) |
| Oakland University | 7,088 | 8,169 | 1,081 | 6,005 | 6,312 | 307 |
| Saginaw Valley College | 2,124 | 2,278 | 154 | 1,571 | 1,583 | 12 |
| University of Michigan | | | | | | |
| Ann Arbor | 36,507 | 36,646 | 139 | 31,895 | 32,489 | 594 |
| Dearborn | 1,369 | 1,978 | 609 | 1,123 | 1,659 | 536 |
| Flint | 2,110 | 2,555 | 445 | 1,723 | 2,020 | 297 |
| Total | 39,986 | 41,179 | 1,193 | 34,741 | 36,168 | 1,427 |
| Wayne State University | 36,765 | 33,837 | (2,928) | 26,912 | 24,585 | (2,327) |
| Western Michigan University | 23,026 | 22,349 | (677) | 18,810 | 17,680 | (1,330) |
| Total | 220,165 | 218,727 | (1,438) | 184,239 | 181,500 | (2,739) |

Source: Higher Education General Information Survey (HEGIS), 1971-72 and 1972-73 OE Form 2300-2.3.

Table 6

COMPARISON OF OPENING FALL ENROLLMENT OF RESIDENT AND EXTENSION STUDENTS IN PUBLIC TWO-YEAR COLLEGES IN MICHIGAN, 1971 AND 1972

| Institution | Headcount | | | Full-Time-Equivalent | | |
|---|---|---|---|---|---|---|
| | 1971 | 1972 | + (-) | 1971 | 1972 | + (-) |
| Alpena | 1,044 | 1,328 | 284 | 832 | 991 | 159 |
| Bay de Noc | 1,002 | 799 | (203) | 750 | 629 | (121) |
| Delta | 6,250 | 6,123 | (127) | 3,743 | 3,873 | 130 |
| Genesee | 11,951 | 13,187 | 1,236 | 4,759 | 4,798 | 39 |
| Glen Oaks | 802 | 648 | (154) | 626 | 427 | (199) |
| Gogebic | 684 | 708 | 24 | 584 | 542 | (42) |
| Grand Rapids | 5,568 | 5,319 | (249) | 4,176 | 3,841 | (335) |
| Henry Ford | 10,497 | 11,187 | 690 | 5,406 | 5,607 | (201) |
| Highland Park | 3,597 | 3,624 | 27 | 2,782 | 2,333 | (449) |
| Jackson | 3,515 | 3,609 | 94 | 2,044 | 2,062 | 18 |
| Kalamazoo Valley | 3,448 | 4,175 | 727 | 2,117 | 2,281 | 164 |
| Kellogg | 3,314 | 3,329 | 15 | 2,193 | 2,040 | (153) |
| Kirtland | 585 | 614 | 29 | 412 | 467 | 55 |
| Lake Michigan | 3,285 | 3,082 | (203) | 1,979 | 1,808 | (171) |
| Lansing | 7,951 | 8,773 | 822 | 4,435 | 4,654 | 219 |
| Macomb | 17,640 | 17,485 | (155) | 10,084 | 9,326 | (758) |
| Mid Michigan | 701 | 775 | 74 | 411 | 427 | 16 |
| Monroe | 1,741 | 1,674 | (67) | 1,166 | 1,068 | (98) |
| Montcalm | 665 | 891 | 226 | 328 | 554 | 226 |
| Muskegon | 3,889 | 3,879 | (10) | 2,351 | 2,397 | 46 |
| North Central | 765 | 869 | 104 | 555 | 562 | 7 |
| Northwestern | 1,964 | 1,936 | (28) | 1,628 | 1,565 | (63) |
| Oakland - Auburn Hills | 4,451 | 4,181 | (270) | 2,227 | 2,092 | (135) |
| Highland Lakes | 2,124 | 2,345 | 221 | 1,184 | 1,128 | (56) |
| Orchard Ridge | 6,253 | 5,675 | (578) | 4,100 | 3,354 | (746) |
| Southeast | 1,755 | 1,833 | 78 | 644 | 814 | 170 |
| Total | 14,583 | 14,034 | (549) | 8,155 | 7,388 | (767) |
| St. Clair | 3,139 | 3,787 | 648 | 1,993 | 2,200 | 207 |
| Schoolcraft | 6,017 | 5,847 | (170) | 3,725 | 3,294 | (431) |
| Southwestern | 915 | 950 | 35 | 761 | 763 | 2 |
| Washtenaw | 4,024 | 4,217 | 193 | 2,533 | 2,038 | (495) |
| Wayne County | 11,789 | 13,023 | 1,234 | 5,609 | 7,340 | 1731 |
| West Shore | 734 | 785 | 51 | 485 | 517 | 32 |
| TOTAL | 132,059 | 136,657 | 4,598 | 76,622 | 75,797 | (825) |

Source: Higher Education General Information Survey (HEGIS), 1971-72 and 1972-73, OE Form 2300-2.3.

On a full-time-equivalent basis, only Wayne County Community College reported an increase of more than 1,000 students. No institution reported a decrease of more than 1,000 students, but 17 institutions had decreases of less than 1,000.

As shown in Table 7, changes in enrollments at private colleges and universities on both a headcount basis and a full-time-equivalent basis were relatively small. Twenty-three institutions reported increases on a headcount basis ranging from 1 to 212. Twenty-two institutions reported decreases ranging from 1 to 289.

Enrollments by Sex and Status

Tables 8 to 10 provide detailed information about sex and enrollment status of students at institutions of higher education in Michigan during the fall of 1972.

As shown in Table 8, there were 122,763 men and 95,964 women enrolled at public 4-year institutions during the fall of 1972. These figures include both full-time and part-time students. On a percentage basis men accounted for 56 percent of the total and women accounted for 44 percent of the total.

It can also be seen in Table 8 that public 4-year institutions had a total of 163,337 full-time students and 55,390 part-time students in the fall of 1972. On a percentage basis, full-time students represented 75 percent of the total while part-time students represented 25 percent of the total.

Table 9 shows corresponding figures for public 2-year institutions. These institutions reported a total of 77,730 men and 58,927 women for the fall of 1972. On a percentage basis, men accounted for 57 percent of the total while women accounted for the remaining 43 percent.

Figures in Table 9 reveal that public 2-year institutions reported a total of 49,595 full-time students as compared to 87,062 part-time students. On a percentage basis, full-time students represented 36 percent of the total and part-time students represented 64 percent.

Table 7

COMPARISON OF OPENING FALL ENROLLMENT OF RESIDENT AND EXTENSION STUDENTS IN PRIVATE COLLEGES AND UNIVERSITIES IN MICHIGAN, 1971 AND 1972

| Institution | Headcount | | | Full-Time-Equivalent | | |
|---|---|---|---|---|---|---|
| | 1971 | 1972 | + (-) | 1971 | 1972 | + (-) |
| Adrian | 1,447 | 1,191 | (256) | 1,410 | 1,161 | (249) |
| Albion | 1,782 | 1,783 | 1 | 1,761 | 1,767 | 6 |
| Alma | 1,328 | 1,229 | (99) | 1,320 | 1,229 | (91) |
| Andrews | 2,191 | 2,119 | (72) | 1,893 | 1,909 | 16 |
| Aquinas | 1,422 | 1,506 | 84 | 1,137 | 1,177 | 40 |
| Calvin | 3,306 | 3,185 | (121) | 3,182 | 3,096 | (86) |
| Calvin Seminary | 144 | 137 | (7) | 131 | 136 | 5 |
| Cleary | 663 | 658 | (5) | 600 | 376 | (224) |
| Concordia Luth. | 468 | 474 | 6 | 465 | 471 | 6 |
| Cranbrook Acad. | 154 | 147 | (7) | 154 | 147 | (7) |
| Davenport Bus. | 1,350 | 1,311 | (29) | 1,084 | 1,079 | (5) |
| Detroit Bible | 295 | 330 | 35 | 235 | 253 | 18 |
| Detroit Bus | 1,262 | 1,229 | (33) | 874 | 889 | 15 |
| Detroit Law | 835 | 875 | 40 | 564 | 875 | 311 |
| Detroit Tech. | 1,139 | 995 | (144) | 793 | 722 | (71) |
| Duns Scotus | 313 | 326 | 13 | 116 | 170 | 54 |
| General Motors | 3,075 | 3,114 | 39 | 3,075 | 3,114 | 39 |
| Grace Bible | 154 | 137 | (17) | 133 | 123 | (10) |
| Grand Rpds. Bapt. | 694 | 717 | 23 | 617 | 653 | 36 |
| Hillsdale | 1,196 | 1,131 | 73 | 1,114 | 1,080 | (34) |
| Hope | 2,111 | 2,124 | 13 | 2,053 | 2,095 | 42 |
| Kalamazoo | 1,360 | 1,384 | 24 | 1,316 | 1,371 | 55 |
| Lawrence Tech. | 4,107 | 4,026 | (81) | 3,240 | 3,083 | (157) |
| Madonna | 727 | 831 | 104 | 447 | 515 | 68 |
| Maryglade | 14 | 13 | (1) | 15 | 13 | (2) |
| Marygrove | 1,102 | 1,128 | 26 | 841 | 816 | (25) |
| Mercy | 1,620 | 1,822 | 202 | 1,366 | 1,526 | 160 |
| Merrill-Palmer | 76 | 85 | 9 | 84 | 57 | (27) |
| Mich. Christian | 219 | 191 | (28) | 215 | 191 | (24) |
| Muskegon Bus. | 429 | 477 | 48 | 351 | 355 | 4 |
| Nazareth | 400 | 460 | 60 | 380 | 428 | 48 |
| Northwood | 1,246 | 1,065 | (181) | 1,232 | 1,065 | (167) |
| Olivet | 832 | 802 | (30) | 795 | 754 | (41) |
| Owosso | 196 | 237 | 41 | 171 | 232 | 61 |
| Reformed Bible | 108 | 156 | 48 | 103 | 160 | 57 |
| Sacred Heart | 113 | 142 | 29 | 113 | 111 | (2) |
| Saint Marys | 98 | 111 | 13 | 86 | 83 | (3) |
| Shaw | 810 | 762 | (48) | 630 | 717 | 87 |
| Siena Heights | 647 | 681 | 34 | 491 | 538 | 47 |
| Soc. Art & Craft | 738 | 703 | (35) | 439 | 428 | (11) |
| Spring Arbor | 721 | 688 | (33) | 693 | 650 | (43) |
| Suomi | 399 | 338 | (61) | 386 | 338 | (48) |
| Univ. of Detroit | 9,597 | 9,308 | (289) | 7,294 | 6,945 | (349) |
| Walsh College | 347 | 415 | 68 | 176 | 205 | 29 |
| Western Sem. | 100 | 115 | 15 | 76 | 95 | 19 |
| Total | 51,335 | 50,658 | (677) | 43,651 | 43,187 | 464 |

Source: Higher Education General Information Survey (HEGIS) 1971-72 and 1972-73, OE Form 2300-2.3.

Table 8

OPENING FALL ENROLLMENT OF RESIDENT AND EXTENSION STUDENTS
AT PUBLIC BACCALAUREATE INSTITUTIONS IN MICHIGAN
Fall 1972

| Institution | Headcount | | | | | | | | | Full-Time Equivalent |
|---|---|---|---|---|---|---|---|---|---|---|
| | Men | | | Women | | | Total | | | |
| | Full-Time | Part-Time | Total | Full-Time | Part-Time | Total | Full-Time | Part-Time | Total | |
| Central | 6,082 | 1,860 | 7,942 | 6,652 | 1,973 | 8,625 | 12,734 | 3,833 | 16,567 | 13,652 |
| Eastern | 6,624 | 3,778 | 10,402 | 6,631 | 3,653 | 10,284 | 13,255 | 7,431 | 20,686 | 14,595 |
| Ferris | 5,821 | 125 | 5,946 | 2,819 | 102 | 2,921 | 8,640 | 227 | 8,867 | 9,622 |
| Grand Valley | 2,385 | 526 | 2,911 | 1,894 | 413 | 2,307 | 4,279 | 939 | 5,218 | 4,732 |
| Lake Superior | 1,042 | 222 | 1,264 | 468 | 158 | 626 | 1,510 | 380 | 1,890 | 1,684 |
| Michigan State | 19,289 | 5,582 | 24,871 | 15,898 | 3,847 | 19,745 | 35,187 | 9,429 | 44,616 | 38,534 |
| Michigan Tech. | 4,141 | 156 | 4,297 | 567 | 154 | 721 | 4,708 | 310 | 5,018 | 5,437 |
| Northern | 3,398 | 992 | 4,390 | 2,817 | 846 | 3,663 | 6,215 | 1,838 | 8,053 | 6,916 |
| Oakland | 2,913 | 734 | 3,647 | 2,620 | 1,902 | 4,522 | 5,533 | 2,636 | 8,169 | 6,312 |
| Saginaw Valley | 641 | 502 | 1,143 | 594 | 541 | 1,135 | 1,235 | 1,043 | 2,278 | 1,583 |
| Univ. of Mich. | | | | | | | | | | |
| Ann Arbor | 18,642 | 3,331 | 21,973 | 11,271 | 3,402 | 14,673 | 29,913 | 6,733 | 36,646 | 32,489 |
| Dearborn | 887 | 391 | 1,278 | 537 | 163 | 700 | 1,424 | 554 | 1,978 | 1,659 |
| Flint | 1,000 | 329 | 1,329 | 880 | 346 | 1,226 | 1,880 | 675 | 2,555 | 2,020 |
| Wayne | 12,398 | 7,160 | 19,558 | 8,465 | 5,814 | 14,279 | 20,863 | 12,974 | 33,837 | 24,585 |
| Western | 8,631 | 3,181 | 11,812 | 7,330 | 3,207 | 10,537 | 15,961 | 6,388 | 22,349 | 17,680 |
| Total | 93,894 | 28,869 | 122,763 | 69,443 | 26,521 | 95,964 | 163,337 | 55,390 | 218,727 | 181,500 |

Table 9

OPENING FALL ENROLLMENT OF RESIDENT AND EXTENSION STUDENTS
IN PUBLIC TWO-YEAR COLLEGES IN MICHIGAN
Fall 1972

| Institution | Headcount | | | | | | | | | Full-Time Equivalent |
|---|---|---|---|---|---|---|---|---|---|---|
| | Men | | | Women | | | Total | | | |
| | Full-Time | Part-Time | Total | Full-Time | Part-Time | Total | Full-Time | Part-Time | Total | |
| Alpena Community College | 595 | 310 | 950 | 247 | 176 | 423 | 842 | 486 | 1,328 | 991 |
| Bay de Noc Community College | 322 | 137 | 459 | 210 | 130 | 340 | 532 | 267 | 799 | 629 |
| Delta College | 1,644 | 1,662 | 3,306 | 1,401 | 1,416 | 2,817 | 3,045 | 3,078 | 6,123 | 3,873 |
| Genesee Community College | 1,625 | 5,147 | 6,772 | 1,212 | 5,203 | 6,415 | 2,837 | 10,350 | 13,187 | 4,798 |
| Glen Oaks Community College | 196 | 214 | 410 | 121 | 117 | 238 | 317 | 331 | 648 | 427 |
| Gogebic Community College | 276 | 132 | 408 | 214 | 86 | 300 | 490 | 218 | 708 | 542 |
| Grand Rapids Junior College | 1,907 | 1,187 | 3,094 | 1,259 | 966 | 2,225 | 3,166 | 2,153 | 5,319 | 3,841 |
| Henry Ford Community College | 1,721 | 6,346 | 8,067 | 1,097 | 2,023 | 3,120 | 2,818 | 8,369 | 11,187 | 5,607 |
| Highland Park Community College | 705 | 859 | 1,564 | 904 | 1,156 | 2,060 | 1,609 | 2,015 | 3,624 | 2,333 |
| Jackson Community College | 989 | 1,481 | 2,470 | 477 | 662 | 1,139 | 1,466 | 2,143 | 3,609 | 2,062 |
| Kalamazoo Valley Community College | 939 | 1,350 | 2,289 | 571 | 1,315 | 1,886 | 1,510 | 2,665 | 4,175 | 2,281 |
| Kellogg Community College | 779 | 950 | 1,729 | 617 | 983 | 1,600 | 1,396 | 1,933 | 3,329 | 2,040 |
| Kirtland Community College | 257 | 142 | 399 | 110 | 105 | 215 | 367 | 247 | 614 | 467 |
| Lake Michigan College | 656 | 1,070 | 1,726 | 515 | 841 | 1,356 | 1,171 | 1,911 | 3,082 | 1,808 |
| Lansing Community College | 1,892 | 3,315 | 5,207 | 1,096 | 2,470 | 3,566 | 2,988 | 5,785 | 8,773 | 4,654 |
| Macomb County Community College | 3,402 | 7,748 | 11,150 | 2,003 | 4,332 | 6,335 | 5,405 | 12,080 | 17,485 | 9,326 |
| Mid Michigan Community College | 178 | 233 | 411 | 157 | 207 | 364 | 335 | 440 | 775 | 427 |
| Monroe County Community College | 470 | 588 | 1,058 | 283 | 333 | 616 | 753 | 921 | 1,674 | 1,063 |
| Montcalm Community College | 234 | 405 | 639 | 126 | 126 | 252 | 360 | 531 | 891 | 554 |
| Muskegon Community College | 999 | 1,232 | 2,231 | 657 | 991 | 1,648 | 1,656 | 2,223 | 3,879 | 2,397 |
| North Central Michigan College | 233 | 201 | 434 | 213 | 222 | 435 | 446 | 423 | 869 | 562 |
| Northwestern Michigan College | 730 | 282 | 1,012 | 649 | 275 | 924 | 1,379 | 557 | 1,936 | 1,565 |
| Oakland Community College | 2,784 | 4,987 | 7,771 | 1,525 | 4,738 | 6,263 | 4,309 | 9,725 | 14,034 | 7,388 |
| St. Clair County Community College | 740 | 936 | 1,676 | 666 | 1,445 | 2,111 | 1,406 | 2,381 | 3,787 | 2,200 |
| Schoolcraft College | 1,387 | 2,074 | 3,461 | 792 | 1,595 | 2,387 | 2,178 | 3,669 | 5,847 | 3,294 |
| Southwestern Michigan College | 427 | 153 | 580 | 230 | 140 | 370 | 657 | 293 | 950 | 763 |
| Washtenaw Community College | 851 | 1,876 | 2,727 | 378 | 1,112 | 1,490 | 1,229 | 2,988 | 4,217 | 2,038 |
| Wayne County Community College | 2,013 | 3,352 | 5,365 | 2,528 | 5,130 | 7,658 | 4,541 | 8,482 | 13,023 | 7,340 |
| West Shore Community College | 224 | 186 | 410 | 163 | 212 | 375 | 387 | 398 | 785 | 517 |
| Total | 29,175 | 48,555 | 77,730 | 20,420 | 38 507 | 58,927 | 49,595 | 87,062 | 136,657 | 75,797 |

Table 10 shows that private colleges and universities reported a total of 31,145 men and 19,513 women for the fall of 1972. In percentage terms, men represented 61 percent of the total while women represented the remaining 39 percent.

According to Table 10, private colleges and universities had a total of 38,481 full-time students and 12,177 part-time students in the fall of 1972. Full-time students represented 76 percent of the total and part-time students represented 24 percent.

Enrollments for Advanced Degrees

Tables 11 and 12 show the number of students enrolled for advanced degrees at institutions of higher education in Michigan during the fall of 1972. Details are presented by institution and by field of study.

As shown in Table 11, a total of 40,549 students were enrolled for advanced degrees at public baccalaureate institutions in the fall of 1972. Of this total, 5,031 students were enrolled for first-professional degrees and 35,518 were enrolled for master's and higher degrees. It can also be seen that students enrolled for first-professional degrees were about equally divided between Dentistry and the various fields of Medicine on the one hand and the field of Law on the other. With regard to students enrolled for master's and higher degrees, it should be noted that the total for Education was 13,439, or almost one-third of all students enrolled for master's and higher degrees.

Table 12 provides corresponding figures for private colleges and universities during the fall of 1972. At these institutions, there were 2,292 students enrolled for first-professional degrees and 2,233 students enrolled for master's and higher degrees, or a total of 4,525 students enrolled for advanced degrees. Most of the students enrolled for first-professional degrees were in the field of Law, with

Table 10

OPENING FALL ENROLLMENT OF RESIDENT AND EXTENSION STUDENTS
AT INDEPENDENT COLLEGES AND UNIVERSITIES IN MICHIGAN
Fall 1972

| Institution | Headcount | | | | | | | | | Full-Time Equivalent |
|---|---|---|---|---|---|---|---|---|---|---|
| | Men | | | Women | | | Total | | | |
| | Full-Time | Part-Time | Total | Full-Time | Part-Time | Total | Full-Time | Part-Time | Total | |
| Adrian College | 577 | 34 | 611 | 561 | 19 | 580 | 1,138 | 53 | 1,191 | 1,161 |
| Albion College | 932 | 9 | 941 | 827 | 15 | 842 | 1,759 | 24 | 1,783 | 1,767 |
| Alma College | 622 | 4 | 626 | 590 | 13 | 603 | 1,212 | 17 | 1,229 | 1,229 |
| Andrews University | 1,057 | 162 | 1,219 | 764 | 136 | 900 | 1,821 | 298 | 2,119 | 1,909 |
| Aquinas College | 540 | 270 | 810 | 472 | 224 | 696 | 1,012 | 494 | 1,506 | 1,177 |
| Calvin College | 1,548 | 93 | 1,641 | 1,450 | 94 | 1,544 | 2,998 | 187 | 3,185 | 3,096 |
| Calvin Theological Seminary | 119 | 14 | 133 | 1 | 3 | 4 | 120 | 17 | 137 | 126 |
| Cleary College | 88 | 230 | 318 | 148 | 192 | 340 | 236 | 422 | 658 | 376 |
| Concordia Lutheran Junior College | 217 | 4 | 221 | 248 | 5 | 253 | 465 | 9 | 474 | 471 |
| Cranbrook Academy of Art | 99 | -- | 99 | 48 | -- | 48 | 147 | -- | 147 | 147 |
| Davenport College of Business | 344 | 274 | 618 | 489 | 204 | 693 | 833 | 478 | 1,311 | 1,079 |
| Detroit Bible College | 123 | 86 | 209 | 78 | 43 | 121 | 201 | 129 | 330 | 253 |
| Detroit College of Business | 332 | 299 | 631 | 364 | 234 | 598 | 696 | 533 | 1,229 | 889 |
| Detroit College of Law | 840 | -- | 840 | 35 | -- | 35 | 875 | -- | 875 | 875 |
| Detroit Institute of Technology | 475 | 372 | 847 | 103 | 45 | 148 | 578 | 417 | 995 | 717 |
| Duns Scotus | 66 | 10 | 76 | -- | 250 | 250 | 66 | 260 | 326 | 170 |
| General Motors Institute | 3,003 | -- | 3,003 | 111 | -- | 111 | 3,114 | -- | 3,114 | 3,114 |
| Grace Bible College | 61 | 10 | 71 | 56 | 10 | 66 | 117 | 20 | 137 | 123 |
| Grand Rapids Baptist College | 288 | 81 | 369 | 308 | 40 | 348 | 596 | 121 | 717 | 653 |
| Hillsdale College | 591 | 26 | 617 | 468 | 46 | 514 | 1,059 | 72 | 1,131 | 1,080 |
| Hope College | 947 | 54 | 1,001 | 1,069 | 54 | 1,123 | 2,016 | 108 | 2,124 | 2,095 |
| John Wesley | 95 | 3 | 98 | 132 | 7 | 139 | 227 | 10 | 237 | 232 |
| Kalamazoo College | 748 | 7 | 755 | 613 | 16 | 629 | 1,361 | 23 | 1,384 | 1,371 |
| Lawrence Institute of Technology | 2,364 | 1,540 | 3,904 | 69 | 53 | 122 | 2,433 | 1,593 | 4,026 | 3,083 |
| Madonna College | 53 | 135 | 188 | 344 | 299 | 643 | 397 | 434 | 831 | 515 |

Table 10 Continued

OPENING FALL ENROLLMENT OF RESIDENT AND EXTENSION STUDENTS
AT INDEPENDENT COLLEGES AND UNIVERSITIES IN MICHIGAN
Fall 1972

| Institution | Headcount | | | | | | | | | Full-Time Equivalent |
|---|---|---|---|---|---|---|---|---|---|---|
| | Men | | | Women | | | Total | | | |
| | Full-Time | Part-Time | Total | Full-Time | Part-Time | Total | Full-Time | Part-Time | Total | |
| Maryglade College | 13 | -- | 13 | -- | -- | -- | 13 | -- | 13 | 13 |
| Marygrove College | 63 | 205 | 268 | 540 | 320 | 860 | 603 | 525 | 1,128 | 816 |
| Mercy College | 212 | 296 | 508 | 1,061 | 253 | 1,314 | 1,273 | 549 | 1,822 | 1,526 |
| Merrill-Palmer Institute | 11 | 5 | 16 | 47 | 22 | 69 | 58 | 27 | 85 | 57 |
| Michigan Christain Junior College | 86 | 1 | 87 | 95 | 9 | 104 | 181 | 10 | 191 | 191 |
| Muskegon Business College | 121 | 91 | 212 | 196 | 69 | 265 | 317 | 160 | 477 | 455 |
| Nazareth College | 25 | 11 | 36 | 387 | 37 | 424 | 412 | 48 | 460 | 428 |
| Northwood Institute | 800 | 74 | 874 | 179 | 12 | 191 | 979 | 86 | 1,065 | 1,065 |
| Olivet College | 485 | 22 | 480 | 279 | 43 | 322 | 737 | 65 | 802 | 753 |
| Reformed Bible College | 73 | 4 | 77 | 76 | 3 | 79 | 149 | 7 | 156 | 160 |
| Sacred Heart Seminary | 97 | 45 | 142 | -- | -- | -- | 97 | 45 | 142 | 111 |
| St. Mary's College | 64 | 18 | 82 | 4 | 25 | 29 | 68 | 43 | 111 | 83 |
| Shaw College | 403 | 20 | 423 | 291 | 48 | 339 | 694 | 68 | 762 | 717 |
| Siena Heights College | 150 | 65 | 215 | 318 | 148 | 466 | 468 | 213 | 681 | 538 |
| Society of Arts and Crafts | 191 | 223 | 414 | 98 | 191 | 289 | 289 | 414 | 703 | 428 |
| Spring Arbor College | 284 | 34 | 318 | 347 | 23 | 370 | 631 | 57 | 688 | 650 |
| Suomi College | 188 | 9 | 197 | 136 | 5 | 141 | 324 | 14 | 338 | 338 |
| University of Detroit | 3,932 | 2,524 | 6,456 | 1,561 | 1,291 | 2,852 | 5,493 | 3,815 | 9,308 | 6,945 |
| Walsh College of Accountancy | 117 | 253 | 370 | 10 | 35 | 45 | 127 | 288 | 415 | 205 |
| Western Theological Seminary | 90 | 21 | 111 | 1 | 3 | 4 | 91 | 24 | 115 | 95 |
| Total | 23,507 | 7,638 | 31,145 | 14,974 | 4,539 | 19,513 | 38,481 | 12,177 | 50,658 | 43,187 |

# Table 11

STUDENTS ENROLLED FOR ADVANCED DEGREES AT PUBLIC BACCALAUREATE INSTITUTIONS IN MICHIGAN, Fall 1972

| Major Field of Study | Central Michigan | Eastern Michigan | Michigan State | Michigan Tech. | Northern Michigan | Oakland University | U of Mich. Ann Arbor | U of Mich. Dearborn | Wayne State | Western Michigan | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **First-Professional Degrees** | | | | | | | | | | | |
| Dentistry | -- | -- | -- | -- | -- | -- | 539 | -- | -- | -- | 539 |
| Medicine | -- | -- | 247 | -- | -- | -- | 904 | -- | 742 | -- | 1893 |
| Optometry | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Osteopathic Medicine | -- | -- | 150 | -- | -- | -- | -- | -- | -- | -- | 150 |
| Podiatry | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Veterinary Medicine | -- | -- | 315 | -- | -- | -- | -- | -- | -- | -- | 315 |
| Law | -- | -- | -- | -- | -- | -- | 1137 | -- | 997 | -- | 2134 |
| Theology | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Totals | -0- | -0- | 712 | -0- | -0- | -0- | 2580 | -0- | 1739 | -0- | 5031 |
| **Master and Higher Degrees** | | | | | | | | | | | |
| Agriculture & Natural Resources | -- | -- | 681 | 14 | -- | -- | 166 | -- | -- | -- | 861 |
| Architecture & Environmental Design | -- | -- | 43 | -- | -- | -- | 229 | -- | 98 | -- | 370 |
| Area Studies | -- | -- | -- | -- | -- | -- | 117 | -- | 5 | 31 | 153 |
| Biological Sciences | 63 | 81 | 561 | 27 | 23 | -- | 481 | -- | 212 | 55 | 1503 |
| Business & Management | 158 | 344 | 803 | 20 | -- | -- | 1058 | 5 | 777 | 215 | 3380 |
| Communication | 16 | -- | 171 | -- | -- | -- | 37 | -- | -- | -- | 224 |
| Computer & Information Services | -- | -- | 82 | -- | -- | -- | 163 | -- | 59 | -- | 304 |
| Education | 577 | 2505 | 3557 | -- | 460 | 552 | 1907 | -- | 2572 | 1309 | 13439 |
| Engineering | -- | -- | 274 | 96 | -- | 27 | 876 | 118 | 428 | 40 | 1859 |
| Fine & Applied Arts | 2 | 73 | 192 | -- | -- | -- | 402 | -- | 123 | 50 | 847 |
| Foreign Languages | -- | 17 | 102 | -- | -- | -- | 306 | -- | 86 | 27 | 538 |
| Health Professions | -- | -- | 86 | -- | 13 | -- | 869 | -- | 225 | 76 | 1269 |
| Home Economics | 6 | 86 | 214 | -- | -- | -- | -- | -- | 75 | 21 | 402 |
| Law | -- | -- | -- | -- | -- | -- | 33 | -- | 89 | -- | 122 |
| Letters | 49 | 110 | 269 | -- | 9 | 20 | 797 | -- | 461 | 99 | 1814 |
| Library Science | 27 | -- | -- | -- | -- | -- | 474 | -- | 225 | 168 | 694 |
| Mathematics | 31 | 48 | 214 | 12 | 6 | 7 | 255 | -- | 163 | 42 | 778 |
| Physical Sciences | 14 | 36 | 320 | 36 | 11 | 10 | 395 | -- | 165 | 93 | 1050 |
| Psychology | 104 | 49 | 225 | -- | -- | 46 | 354 | -- | 170 | 173 | 1121 |
| Public Affairs & Services | -- | -- | 228 | -- | 4 | -- | 823 | -- | 379 | 96 | 1530 |
| Social Sciences | 91 | 174 | 620 | -- | 20 | -- | 873 | -- | 558 | 251 | 2587 |
| Theology | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Interdisciplinary Studies | -- | 21 | 25 | -- | 199 | -- | 151 | -- | 44 | -- | 440 |
| Totals | 1138 | 3544 | 8667 | 205 | 745 | 662 | 10766 | 123 | 6949 | 2719 | 35518 |
| **Advanced Degree Totals** | 1138 | 3544 | 9379 | 205 | 745 | 662 | 13346 | 123 | 8688 | 2719 | 40549 |

Source: Higher Education General Information Survey (HEGIS) 1972, OE form 2300-2.5

# Table 12

STUDENTS ENROLLED FOR ADVANCED DEGREES AT INDEPENDENT COLLEGES AND UNIVERSITIES IN MICHIGAN, Fall 1972

| Major Field of Study | Andrews University | Aquinas College | Cranbrook Institute | Detroit College of Law | G. R. Baptist College and Seminary | Marygrove College | Siena Heights College | U of Detroit | Western Theological Seminary | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **First-Professional Degrees** | | | | | | | | | | |
| Dentistry | -- | -- | -- | -- | -- | -- | -- | 354 | -- | 354 |
| Medicine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Optometry | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Osteopathic Medicine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Podiatry | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Veterinary Medicine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Law | -- | -- | -- | 875 | -- | -- | -- | 617 | -- | 1492 |
| Theology | 285 | -- | -- | -- | 73 | -- | -- | -- | 88 | 446 |
| Totals | 285 | -- | -- | 875 | 73 | -- | -- | 971 | 88 | 2292 |
| **Master and Higher Degrees** | | | | | | | | | | |
| Agriculture & Natural Resources | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Architecture & Environmental Design | 2 | -- | 9 | -- | -- | -- | -- | 8 | -- | 19 |
| Area Studies | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Biological Sciences | 17 | -- | -- | -- | -- | -- | -- | 12 | -- | 29 |
| Business & Management | 29 | -- | -- | -- | -- | -- | -- | 950 | -- | 979 |
| Communication | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Computer & Information Services | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Education | 79 | -- | -- | -- | -- | 111 | 52 | 139 | -- | 381 |
| Engineering | -- | -- | -- | -- | -- | -- | -- | 84 | -- | 84 |
| Fine & Applied Arts | 14 | -- | 123 | -- | -- | -- | 3 | -- | -- | 140 |
| Foreign Languages | 1 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| Health Professions | -- | -- | -- | -- | -- | -- | -- | 16 | -- | 16 |
| Home Economics | 11 | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| Law | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Letters | 19 | -- | -- | -- | -- | -- | -- | 103 | -- | 122 |
| Library Science | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Mathematics | 6 | -- | -- | -- | -- | -- | -- | 27 | -- | 33 |
| Physical Sciences | -- | -- | -- | -- | -- | -- | -- | 54 | -- | 54 |
| Psychology | -- | -- | -- | -- | -- | -- | -- | 95 | -- | 95 |
| Public Affairs & Services | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Social Sciences | 18 | -- | -- | -- | -- | -- | -- | 118 | -- | 136 |
| Theology | 51 | 22 | -- | -- | 34 | -- | -- | 5 | 20 | 132 |
| Interdisciplinary Studies | -- | -- | -- | -- | -- | -- | -- | 1 | -- | 1 |
| Totals | 247 | 22 | 132 | -- | 34 | 111 | 55 | 1612 | 20 | 2233 |
| Advanced Degree Totals | 532 | 22 | 132 | 875 | 107 | 111 | 55 | 2583 | 108 | 4525 |

Source: Higher Education General Information Survey (HEGIS) 1972, OE form 2300-2.5.

Dentistry and Theology sharing the remainder. Students enrolled for master's and higher degrees were concentrated in Business and Management, which accounted for almost half of the total in this category, while the other half were spread over several fields of study.

## Part III

## DEGREES AND AWARDS

As noted earlier, information about enrollments at institutions of higher education provides a framework for determining the number and basic characteristics of people who are currently taking advantage of educational programs.

Data showing degrees and other formal awards offered by institutions can also be useful for these purposes. In addition, such information provides insights into the kinds of educational needs currently being met as well as rates of retention at the various institutions.

For example, Table 13 shows degrees and other formal awards granted by public 2-year colleges in Michigan during the fiscal year 1971-72. It can be seen that the data are classified according to two types of curricula -- those of "2 or more years, but less than 4 years" and those of "at least one year, but less than two years". With regard to the first type of curriculum, the figures reveal that these institutions granted 7,154 associate degrees and 147 other awards for work "wholly or chiefly creditable toward a bachelor's degree" plus 2,255 associate degrees and 1,368 other awards for work "not wholly or chiefly creditable toward a bachelor's degree". With regard to the second type of curriculum, they granted a total of 2,210 awards during the year.

Table 14 shows degrees and other formal awards granted by public 4-year institutions during 1971-72. The figures show that those institutions granted 647 awards below the level of the bachelor's degree; 31,245 degrees at the bachelor's level; 12,640 degrees at the master's level; 1,214 degrees at the first-professional level; and 1,694 degrees at the doctor's level -- or a grand total of 47,440 degrees and other formal awards.

Table 13

DEGREES AND OTHER FORMAL AWARDS BASED ON LESS THAN FOUR YEARS OF WORK BEYOND HIGH SCHOOL AND CONFERRED BY PUBLIC TWO-YEAR COLLEGES IN MICHIGAN BETWEEN JULY 1, 1971 AND JUNE 30, 1972

| Institution | Curriculums Of 2 Or More Years, But Less Than 4 Years | | | | Curriculums Of At Least One Year, But Less Than Two Years |
|---|---|---|---|---|---|
| | Work Wholly Or Chiefly Creditable Toward A Bachelor's Degree | | Work Not Wholly or Chiefly Creditable Toward A Bachelor's Degree | | |
| | Associate Degree | Other Awards | Associate Degree | Other Awards | |
| Alpena | 124 | -- | 34 | -- | 36 |
| Bay de Noc | 75 | -- | 50 | 206 | 145 |
| Delta | 678 | -- | -- | -- | 35 |
| Genesee | 282 | -- | 272 | -- | 536 |
| Glen Oaks | 61 | -- | 13 | -- | 28 |
| Gogebic | 91 | -- | 47 | -- | 53 |
| Grand Rapids | 608 | -- | 147 | -- | 148 |
| Henry Ford | 309 | -- | 376 | 747 | -- |
| Highland Park | 215 | -- | 106 | -- | 33 |
| Jackson | 328 | -- | 14 | -- | 139 |
| Kalamazoo Valley | 82 | -- | 150 | -- | 5 |
| Kellog | 202 | -- | 166 | -- | 72 |
| Kirtland | 43 | -- | 12 | 9 | -- |
| Lake Michigan | 331 | -- | -- | -- | 34 |
| Lansing | 248 | -- | 287 | -- | 71 |
| Macomb County | 1221 | 53 | -- | -- | 384 |
| Mid Michigan | 26 | -- | 18 | -- | 42 |
| Monroe County | 145 | -- | 76 | -- | 6 |
| Montcalm | 32 | -- | 11 | 9 | 33 |
| Muskegon | 208 | -- | 77 | -- | 116 |
| North Central | 88 | -- | -- | -- | -- |
| Northwestern | 203 | -- | 49 | 39 | 48 |
| Oakland | 440 | -- | 246 | -- | 84 |
| St. Clair County | 174 | -- | 141 | -- | 68 |
| Schoolcraft | 221 | 3 | 201 | 6 | 2 |
| Southwestern | 70 | -- | 80 | -- | 32 |
| Washtenaw | 250 | -- | 164 | -- | -- |
| Wayne County | 517 | -- | -- | -- | 34 |
| West Shore | 64 | -- | -- | -- | 19 |
| Total | 7,154 | 147 | 2,255 | 1,368 | 2,210 |

Source: Higher Education General Information Survey (HEGIS) 1972-73, OE Form 2300-2.1.

Table 14

DEGREES AND OTHER FORMAL AWARDS CONFERRED BY PUBLIC FOUR-YEAR [illegible] IN MICHIGAN BY INSTITUTION AND DEGREE LEVEL

JULY 1, 1971 TO JUNE 30, 1972

| Institution | Below Bachelor's | Bachelor's | Master's | First Professional | Doctor's | Total |
|---|---|---|---|---|---|---|
| Central Michigan University | 21 | 2,522 | 713 | - | - | 3,256 |
| Eastern Michigan University | 26 | 2,579 | 1,360* | - | - | 3,965 |
| Ferris State College | 316 | 872 | -- | - | - | 1,188 |
| Grand Valley State College | - | 513 | - | - | - | 513 |
| Lake Superior State College | 52 | 123 | - | - | - | 175 |
| Michigan State University | - | 7,631 | 2,713 | 123 | 633 | 11,100 |
| Michigan Technological University | 48 | 831 | 110 | - | 12 | 1,001 |
| Northern Michigan University | 46 | 1,234 | 210 | - | - | 1,490 |
| Oakland University | 22 | 1,158 | 184 | - | - | 1,364 |
| Saginaw Valley College | - | 200 | - | - | - | - |
| University of Michigan | | | | | | |
| (Ann Arbor) | 54 | 4,614 | 3,487 | 691 | 798 | 9,644 |
| (Dearborn) | - | 289 | 46 | - | - | 335 |
| (Flint) | - | 359 | - | - | - | 359 |
| Total | 54 | 5,262 | 3,533 | 691 | 798 | 10,338 |
| Wayne State University | 56 | 3,881 | 2,526 | 400 | 229 | 7,092 |
| Western Michigan University | 6 | 4,439 | 1,291 | - | 22 | 5,758 |
| Total | 647 | 31,245 | 12,640 | 1,214 | 1,694 | 47,440 |

*This figure includes specialist degrees.

Source: Higher Education General Information Survey (HEGIS) 1972-73, OE Form 2300-2.1.

Table 15 shows degrees and other formal awards granted by private institutions in Michigan during 1971-72. These institutions, as the figures reveal, granted 1,339 degrees and awards below the bachelor's level; 6,689 degrees at the bachelor's level; 962 degrees at the master's level; 466 degrees at the first professional level; and 16 degrees at the doctor's level -- or a grand total of 9,472 degrees and other formal awards.

Tables 16 to 19 provide more detailed information about degrees and awards at the public 4-year institutions during 1971-72. Figures are shown by level of degree, by institution, and by field of study. Comparable information for private institutions will be prepared as soon as possible. In general, these figures can be very useful in relating program outcomes to manpower requirements. Further study of such relationships is urgently needed in Michigan.

Table 15

DEGREES AND OTHER FORMAL AWARDS CONFERRED BY INDEPENDENT COLLEGES AND UNIVERSITIES IN MICHIGAN FROM JULY 1, 1971 TO JUNE 30, 1972

| Institution | Below Bachelor's | Bachelor's | Master's | First Professional | Doctor's | Total |
|---|---|---|---|---|---|---|
| Adrian | - | 294 | - | - | - | 294 |
| Albion | - | 355 | 1 | - | - | 356 |
| Alma | - | 240 | - | - | - | 240 |
| Andrews | 7 | 313 | 132 | 104 | - | 556 |
| Aquinas | - | 272 | 16 | - | - | 288 |
| Calvin | - | 646 | - | - | - | 646 |
| Calvin Sem. | - | - | 4 | 49 | - | 53 |
| Cleary | 73 | 32 | - | - | - | 105 |
| Concordia Luth. | 161 | - | - | - | - | 161 |
| Cranbrook Acad. | - | 4 | 48 | - | - | 52 |
| Davenport Bus. | 254 | - | - | - | - | 254 |
| Detroit Bible | - | 24 | - | - | - | 24 |
| Det. Col. of Bus. | 68 | 218 | - | - | - | 286 |
| Det. Col. of Law | - | - | - | 151 | - | 151 |
| Det. Inst. of Tech. | - | 245 | - | - | - | 245 |
| Duns Scotus | - | 9 | - | - | - | 9 |
| Gen. Motors Inst. | 42 | 372 | - | - | - | 414 |
| Grace Bible | 15 | 8 | - | - | - | 23 |
| Grand Rpds. Bapt. | 6 | 41 | 10 | 9 | - | 66 |
| Hillsdale | - | 176 | - | - | - | 176 |
| Hope | - | 401 | - | - | - | 401 |
| John Wesley | - | 13 | - | - | - | 13 |
| Kalamazoo | - | 272 | - | - | - | 272 |
| Lawrence Tech. | - | 356 | - | - | - | 356 |
| Madonna | - | 95 | - | - | - | 95 |
| Maryglade | - | 3 | - | - | - | 3 |
| Marygrove | - | 135 | 102 | - | - | 237 |
| Mercy | - | 216 | - | - | - | 216 |
| Merrill-Palmer | - | - | - | - | - | - |
| Mich. Christian | 50 | - | - | - | - | 50 |
| Muskegon Bus. | 121 | - | - | - | - | 121 |
| Nazareth | - | 58 | - | - | - | 58 |
| Northwood | 201 | 107 | - | - | - | 308 |
| Olivet | - | 157 | - | - | - | 157 |
| Reformed Bible | 4 | 10 | - | - | - | 14 |
| Sacred Heart | 3 | 36 | - | - | - | 39 |
| St. Marys | - | 22 | - | - | - | 22 |
| Shaw | 50 | 57 | - | - | - | 107 |
| Siena Heights | 9 | 144 | 51 | - | - | 204 |
| Soc. Art & Craft | 11 | 20 | - | - | - | 31 |
| Spring Arbor | - | - | - | - | - | - |
| Suomi | 102 | 147 | - | - | - | 249 |
| Univ. of Detroit | 100 | 1,162 | 590 | 132 | 16 | 2,000 |
| Walsh College | 62 | 29 | - | - | - | 91 |
| Western Sem. | - | - | 8 | 21 | - | 29 |
| Total | 1,339 | 6,689 | 962 | 466 | 16 | 9,472 |

Source: Higher Education General Information Survey (HEGIS), 1972-73, OE Form 2300-2.1.

## Table 16

BACHELOR'S DEGREES CONFERRED BY PUBLIC FOUR-YEAR COLLEGES AND UNIVERSITIES IN MICHIGAN
July 1, 1971 to June 30, 1972

| | Central | Eastern | Ferris | Grand Valley | Lake Superior | Michigan State | Michigan Tech. | Northern | Oakland | Saginaw Valley | University of Michigan Ann Arbor | University of Michigan Dearborn | University of Michigan Flint | Wayne State | Western | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agri. & Nat. Res. | - | - | - | - | - | 457 | 52 | - | - | - | 88 | - | - | - | 13 | 610 |
| Arch. & Environ. | - | - | - | - | - | 60 | - | - | - | - | 112 | - | - | - | - | 172 |
| Area Studies | - | - | - | - | - | 7 | - | - | 1 | - | 45 | - | - | 4 | 4.5 | 61.5 |
| Biological Sci. | 139 | 77 | 25 | 32 | 11 | 205 | 49 | 52 | 72 | 14 | 313 | 13 | 19.5 | 91 | 127.5 | 1,240 |
| Bus. & Mgmt. | 238 | 388 | 477 | 22 | 31 | 669 | 121 | 163 | 61 | 18 | 111 | 64 | 47.5 | 473 | 600 | 3,483.5 |
| Communications | 30 | - | 28 | - | - | 439 | - | - | - | - | 48 | - | - | 86 | 97.5 | 728.5 |
| Computer Sciences | 2 | - | 38 | - | - | 67 | - | - | - | 1 | 16 | - | - | - | - | 124 |
| Education | 1,014 | 618 | 151 | 28 | - | 1,599 | - | 516 | 34 | - | 367 | 68 | 119 | 1,069 | 1,377.5 | 6,960.5 |
| Engineering | - | 13 | - | 1 | 14 | 300 | 489 | - | 68 | - | 669 | 45 | 1 | 186 | 298.5 | 2,084.5 |
| Fine & Appl'd. Arts | 19 | 180 | - | 14.5 | - | 271 | - | 2 | 35 | - | 215 | - | 4 | 153 | 42.5 | 936 |
| Foreign Lang. | 40 | 8 | - | 18.5 | - | 87 | - | 6 | 58 | 5 | 112 | - | 9.5 | 71 | 60.5 | 475.5 |
| Health Prof. | - | 32 | 132 | 1 | 4 | 245 | 15 | 42 | - | - | 305 | - | 1 | 230 | 59 | 1,066 |
| Home Economics | 63 | 36 | - | - | - | 298 | - | 44 | - | - | - | - | - | 52 | 37 | 530 |
| Law | - | 36 | - | - | - | - | - | - | - | - | 29 | - | - | - | - | 65 |
| Letters | 243 | 418 | - | 40 | 4 | 267 | - | 99 | 179 | 51.5 | 558 | 17 | 30.5 | 250 | 494 | 2,651 |
| Library Sci. | 26 | 23 | - | - | - | - | - | - | - | - | - | - | - | 32 | - | 81 |
| Mathematics | 25 | 81 | 17 | 15.5 | 3 | 201 | 31 | 31 | 38 | 10.5 | 157 | 6 | 14 | 92 | 27 | 749 |
| Military Sci. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Physical Sci. | 55 | 37 | 4 | 34.5 | 1 | 119 | 57 | 9 | 36 | 16 | 126 | 4 | 15 | 73 | 63 | 649.5 |
| Psychology | 82 | 71 | - | 38.5 | 10.5 | 327 | - | 22 | 125 | 16 | 303 | 15 | 32.5 | 253 | 86 | 1,381.5 |
| Public Affairs | 2 | 57 | - | 4 | - | 360 | - | 55 | - | - | - | - | - | 45 | - | 523 |
| Social Sciences | 544 | 481 | - | 246.5 | 44.5 | 1,285 | - | 193 | 451 | 68 | 805 | - | 65.5 | 612 | 1,051.5 | 5,847 |
| Theology | - | - | - | - | - | - | - | - | - | - | - | 36 | - | - | - | 36 |
| Interdisciplinary | - | 23 | - | 17 | - | 368 | 17 | - | - | - | 235 | 21 | - | 109 | - | 790 |
| Total | 2,522 | 2,579 | 872 | 513 | 123 | 7,631 | 831 | 1,234 | 1,158 | 200 | 4,614 | 289 | 359 | 3,881 | 4,439 | 31,245 |

Source: Higher Education General Information Survey (HEGIS), 1972-73, OE Form 2300-2.1.

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## Table 17

MASTER'S DEGREES CONFERRED BY PUBLIC FOUR-YEAR COLLEGES AND UNIVERSITIES IN MICHIGAN
July 1, 1971 to June 30, 1972

| | Central | Eastern | Ferris | Grand Valley | Lake Superior | Michigan State | Michigan Tech. | Northern | Oakland | Saginaw Valley | University of Michigan Ann Arbor | University of Michigan Dearborn | University of Michigan Flint | Wayne State | Western | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agri. & Nat. Res. | - | - | - | - | - | 135 | 4 | - | - | - | 39 | - | - | - | - | 178 |
| Arch. & Environ. | - | - | - | - | - | 16 | - | - | - | - | 49 | - | - | 21 | - | 86 |
| Area Studies | - | - | - | - | - | - | - | - | - | - | 47 | - | - | - | 8 | 55 |
| Biological Sci. | 23 | 28 | - | - | - | 65 | 2 | 8 | - | - | 96 | - | - | 44 | 8 | 274 |
| Bus. & Mgmt. | 114 | 55 | - | - | - | 519 | 18 | - | - | - | 351 | - | - | 263 | 131 | 1,451 |
| Communications | 5 | - | - | - | - | 73 | - | - | - | - | 21 | - | - | - | 19 | 118 |
| Computer Sciences | - | - | - | - | - | 25 | - | - | - | - | 69 | - | - | 4 | - | 98 |
| Education | 408 | 1,072 | - | - | - | 1,110 | - | 165 | 133 | - | 601 | - | - | 1,119 | 713 | 5,321 |
| Engineering | - | - | - | - | - | 64 | 65 | - | 8 | - | 311 | 46 | - | 140 | 15 | 649 |
| Fine & Appl'd. Arts | - | 27 | - | - | - | 53 | - | - | - | - | 111 | - | - | 50 | 14 | 255 |
| Foreign Lang. | - | 6 | - | - | - | 29 | - | - | - | - | 74 | - | - | 28 | 16 | 153 |
| Health Prof. | - | - | - | - | - | 34 | - | 5 | - | - | 373 | - | - | 88 | 31 | 531 |
| Home Economics | 3 | 31 | - | - | - | 53 | - | - | - | - | - | - | - | 19 | 7 | 113 |
| Law | - | - | - | - | - | - | - | - | - | - | 18 | - | - | 10 | - | 44 |
| Letters | 47 | 44 | - | - | - | 63 | - | 10 | 17 | - | 254 | - | - | 118 | 29 | 582 |
| Library Sci. | 12 | - | - | - | - | - | - | - | - | - | 264 | - | - | 143 | 114 | 533 |
| Mathematics | 15 | 24 | - | - | - | 78 | 5 | 3 | 5 | - | 91 | - | - | 54 | 20 | 295 |
| Military Sci. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Physical Sci. | 7 | 9 | - | -- | - | 53 | 16 | 3 | 3 | - | 90 | - | - | 38 | 16 | 235 |
| Psychology | 23 | 4 | - | - | - | 45 | - | - | 18 | - | 55 | - | - | 37 | 38 | 220 |
| Public Affairs | 22 | - | - | - | - | 91 | - | - | - | - | 367 | - | - | 176 | 43 | 699 |
| Social Sciences | 34 | 56 | - | - | - | 163 | - | 16 | - | - | 205 | - | - | 157 | 69 | 700 |
| Theology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Interdisciplinary | - | 4 | - | - | - | 44 | - | - | - | - | 1 | - | - | 17 | - | 66 |
| Total | 713 | 1,360 | - | - | - | 2,713 | 110 | 210 | 184 | - | 3,487 | 46 | - | 2,526 | 1,291 | 12,640 |

Source: Higher Education General Information Survey (HEGIS), 1972-73, OE Form 2300-2.1.

## Table 18

FIRST PROFESSIONAL DEGREES CONFERRED IN SELECTED FIELDS BY PUBLIC FOUR-YEAR COLLEGES AND UNIVERSITIES IN MICHIGAN
July 1, 1971 to June 30, 1972

| | Central | Eastern | Ferris | Grand Valley | Lake Superior | Michigan State | Michigan Tech. | Northern | Oakland | Saginaw Valley | University of Michigan | | | Wayne State | Western | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Ann Arbor | Dearborn | Flint | | | |
| Dentistry | - | - | - | - | - | - | - | - | - | - | 98 | - | - | - | - | 98 |
| Medicine | - | - | - | - | - | 31 | - | - | - | - | 187 | - | - | 127 | - | 345 |
| Optometry | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Osteopathic Medicine | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Podiatry | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Vet. Medicine | - | - | - | - | - | 92 | - | - | - | - | - | - | - | - | - | 92 |
| Law, general | - | - | - | - | - | - | - | - | - | - | 406 | - | - | 273 | - | 679 |
| Theology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Other | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | 123 | - | - | - | - | 691 | - | - | 400 | - | 1,214 |

Source: Higher Education General Information Survey (HEGIS), 1972-73, OE Form 2300-2.1.

## Table 19

DOCTORATES CONFERRED BY PUBLIC FOUR-YEAR COLLEGES AND UNIVERSITIES IN MICHIGAN
July 1, 1971 to June 30, 1972

| | Central | Eastern | Ferris | Grand Valley | Lake Superior | Michigan State | Michigan Tech. | Northern | Oakland | Saginaw Valley | University of Michigan | | | Wayne State | Western | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Ann Arbor | Dearborn | Flint | | | |
| Agri. & Nat. Res. | - | - | - | - | - | 68 | - | - | - | - | 11 | - | - | - | - | 79 |
| Arch. & Environ. | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | 4 |
| Area Studies | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | 4 |
| Biological Sci. | - | - | - | - | - | 63 | - | - | - | - | 67 | - | - | 22 | - | 152 |
| Bus. & Mgmt. | - | - | - | - | - | 28 | - | - | - | - | 16 | - | - | - | - | 44 |
| Communications | - | - | - | - | - | 12 | - | - | - | - | - | - | - | - | - | 12 |
| Computer Sciences | - | - | - | - | - | 5 | - | - | - | - | 17 | - | - | - | - | 22 |
| Education | - | - | - | - | - | 192 | - | - | - | - | 142 | - | - | 99 | 15 | 448 |
| Engineering | - | - | - | - | - | 35 | 5 | - | - | - | 104 | - | - | 6 | - | 150 |
| Fine & Appl'd. Arts | - | - | - | - | - | 8 | - | - | - | - | 21 | - | - | - | - | 29 |
| Foreign Lang. | - | - | - | - | - | 11 | - | - | - | - | 23 | - | - | 4 | - | 38 |
| Health Prof. | - | - | - | - | - | 6 | - | - | - | - | 20 | - | - | 1 | - | 27 |
| Home Economics | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - | 8 |
| Law | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | 4 |
| Letters | - | - | - | - | - | 13 | - | - | - | - | 84 | - | - | 18 | - | 115 |
| Library Sci. | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | 5 |
| Mathematics | - | - | - | - | - | 20 | - | - | - | - | 17 | - | - | 10 | 2 | 49 |
| Military Sci. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Physical Sci. | - | - | - | - | - | 63 | 7 | - | - | - | 71 | - | - | 29 | 2 | 172 |
| Psychology | - | - | - | - | - | 31 | - | - | - | - | 67 | - | - | 23 | - | 121 |
| Public Affairs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Social Sciences | - | - | - | - | - | 70 | - | - | - | - | 98 | - | - | 17 | 3 | 188 |
| Theology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Interdisciplinary | - | - | - | - | - | - | - | - | - | - | 23 | - | - | - | - | 23 |
| Total | - | - | - | - | - | 633 | 12 | - | - | - | 798 | - | - | 229 | 22 | 1,694 |

Source: Higher Education General Information Survey (HEGIS), 1972-73, OE Form 2300-2.1.

## Part IV

## EQUALITY OF ACCESS TO HIGHER EDUCATION

Three major efforts have been made by the State Board of Education in recent years to encourage and promote policies and programs leading to greater equality of access to higher education in Michigan. These efforts have resulted in the establishment of an Ad Hoc Advisory Committee on Equality of Access to Higher Education, a Task Force on Equality of Access to Higher Education, and a sub-committee of the State Board of Education.

### Ad Hoc Advisory Committee

The Ad Hoc Advisory Committee on Equality of Access to Higher Education was appointed by the State Board of Education at its meeting on July 14, 1970.

The charge to the committee including a general request that it provide advice on means for providing greater equality of opportunity in higher education throughout the State of Michigan. It also listed several specific issues to be considered, namely (1) admission policies and practices among Michigan institutions of higher education, (2) improved financial aids programs for low-income youth, (3) the role of the community college as an open door institution, (4) the problem of community college transfers to baccalaureate institutions, (5) student fees and tuition charges, (6) means for identifying and encouraging qualified high school graduates to continue education, and (7) equal opportunities issues in the provision of student residence halls and student facilities, and in other aspects of student life on campus.

The committee met regularly for more than a year to consider these issues and prepare a final report. The report, which was presented to the State Board of Education at its meeting on March 10, 1971, contained 24 recommendations for improving equality of access to higher education in Michigan.

Task Force

A Task Force on Equality of Access to Higher Education was appointed by the State Board of Education at its meeting of October 10-11, 1972. The charge to the Task Force was "to assist in the development of specific proposals for the implementation of the recommendations in the report of the Ad Hoc Advisory Committee on Equality of Access to Higher Education with appropriate recognition to the reactions listed in the summaries attached to the report".

Members of the Task Force held their first meeting on October 30, 1972, and have met regularly since that time. To expedite their work, they have divided themselves into six subcommittees with each subcommittee assuming responsibility for proposals related to two or more of the recommendations in the report of the Advisory Committee.

It is expected that the Task Force will complete its work and submit a final report to the State Board of Education not later than June 30, 1973.

State Board Subcommittee

At its meeting on October 10-11, 1972, the State Board of Education approved the appointment of a subcommittee consisting of three members to develop proposals related to certain issues requiring special consideration.

The subcommittee submitted a report containing four recommendations to the State Board of Education at its meeting on December 20, 1972. The four recommendations called for (1) a proposal to examine the effects of providing either tuition-free or lower-cost education in public community and junior colleges, (2) approval of an Associate in Technical Studies degree to be awarded by trade and technical schools, (3) a resolution commending colleges and universities that had entered into an agreement concerning transfer of courses from two-year to four-year institutions, and (4) appointment of another subcommittee after January 1, 1973, to continue the work of this subcommittee.

Following discussion of the report, the State Board of Education took action requesting the Superintendent: (1) to develop a report and implementation plans concerning the effects of providing either tuition-free or lower-cost education in public community and junior colleges; and (2) to prepare a report for evaluating the advisability of establishing an Associate in Technical Studies degree to be awarded by trade and technical schools with specific proposals for implementation.

## Part V

## ENROLLMENT PROJECTIONS

This section offers a comparison of enrollment projections in the State Plan for Higher Education in Michigan, the report on financial requirements of public institutions of higher education in Michigan for 1971-72, and some new projections based on trends in enrollments during the last three years.

### State Plan Projections

Table 20 provides a summary of the projections contained in the State Plan for Higher Education in Michigan.

As the figures reveal, it was estimated that total enrollments at institutions of higher education in Michigan would climb from an estimated figure of 397,300 in 1970 to 541,200 in 1975 and to 642,000 in 1980. More detailed figures showing estimates for each of the three types of institutions indicated that public 2-year institutions would have 27.5 percent of the total in 1970, 32.5 percent in 1975, and 35.5 percent in 1980. Projections for the public 4-year institutions indicated that they would enroll 57.6 percent of the total in 1970, 55.1 percent in 1975, and 53.6 percent in 1980. With regard to the private institutions, the projections indicated that these institutions would enroll 14.9 percent in 1970, 12.4 percent in 1975, and 10.9 percent in 1980.

### Projections in the 1971-72 Report

The report on financial requirements of public baccalaureate institutions and public community colleges for 1971-72 contained several sets of enrollment projections for institutions of higher education in Michigan, both public and private. Estimates were prepared on a headcount basis by type of institution and for all institutions combined.

Table 20

ENROLLMENT PROJECTIONS IN STATE PLAN FOR HIGHER EDUCATION IN MICHIGAN *

| | Public 2-Yr. | Public 4-Yr. | Private | Total |
|---|---|---|---|---|
| Estimate | | | | |
| 1970 | 109,200 | 228,800 | 59,200 | 397,300 |
| 1975 | 175,900 | 298,200 | 67,100 | 541,200 |
| 1980 | 227,900 | 344,100 | 70,000 | 642,000 |
| Percent | | | | |
| 1970 | 27.5 | 57.6 | 14.9 | 100.0 |
| 1975 | 32.5 | 55.1 | 12.4 | 100.0 |
| 1980 | 35.5 | 53.6 | 10.9 | 100.0 |

* State Plan for Higher Education in Michigan

Table 21 shows the projections for all institutions combined. Five sets of projections are listed for the years 1971 to 1980. It can be seen that the projections for 1980 ranged from 530,000 students to 645,600 students.

Current Projections

Table 22 shows estimated headcount enrollments at institutions of higher education in Michigan for the years 1973 to 1980.

These estimates are based on two major assumptions, both of which have certain limitations and require further study. The first assumption is that estimates of the number of people from ages 18 to 21 provide a reliable basis for projecting enrollments in the years ahead. The second assumption, which was chosen primarily because of its simplicity, is that the ratio of enrollments to estimated population at ages 18 to 21 will remain at the same level that prevailed in 1972. Other assumptions obviously can be made and need to be made in view of changes in the ratio from 1970 to 1972 as well as other factors not described here.

With these limitations in mind, it can be noted that the estimate for 1980 is 450,750 students, or a figure substantially lower than any previous estimates. If the ratio of enrollments to population at ages 18 to 21 continues to decline, as it has during the past three years, then enrollments in 1980 will be lower still.

Table 23 provides one set of projections by type of institution from 1973 to 1980 based on the totals derived above. These estimates, which were prepared solely for the purpose of providing a starting point for further consideration of alternativ are based on the added assumption that the percentage distribution of students by type of institution will remain the same as it was in 1972. The results indicate that because of increases in total population from ages 18 to 21 each of the three types of institutions can expect annual increases in their respective enrollments until 1978. After than, enrollments may be expected to decline because of decreases in total population from ages 18 to 21 in 1979 and 1980.

Table 21

PROJECTIONS IN THE REPORT ON FINANCIAL REQUIREMENTS FOR 1971-72 *

| Year | Type of Projection | | | | |
|---|---|---|---|---|---|
| | Present Trends | High Income | Equal Access | Equal Opportunity | Revised State Plan |
| 1971 | 423,000 | 423,000 | 424,840 | 420,000 | 429,700 |
| 1972 | 443,000 | 448,000 | 449,820 | 451,000 | 456,300 |
| 1973 | 462,000 | 467,000 | 474,280 | 484,000 | 482,600 |
| 1974 | 478,000 | 486,000 | 495,410 | 512,000 | 510,600 |
| 1975 | 492,000 | 504,000 | 512,470 | 539,000 | 540,700 |
| 1976 | 508,000 | 523,000 | - | - | - |
| 1977 | 517,000 | 532,000 | - | - | - |
| 1978 | 521,000 | 536,000 | - | - | - |
| 1979 | 525,000 | 542,000 | - | - | - |
| 1980 | 530,000 | 551,000 | - | 632,000 | 645,600 |

* Source - Financial Requirements of Public Baccalaureate Institutions and Public Community Colleges - 1971

Table 22

ESTIMATED HEADCOUNT ENROLLMENTS AT INSTITUTIONS
OF HIGHER EDUCATION IN MICHIGAN,
1973 TO 1980*

| Year | Population 18-21 | Opening Fall Enrollments | Ratio of Enrollments to Population 18-21 | Estimated Enrollments |
|---|---|---|---|---|
| 1970 | 618,000 | 395,703 | .642 | - |
| 1971 | 646,000 | 403,559 | .624 | - |
| 1972 | 675,000 | 406,037 | .601 | - |
| 1973 | 702,000 | - | - | 421,902 |
| 1974 | 718,000 | - | - | 431,518 |
| 1975 | 733,000 | - | - | 440,533 |
| 1976 | 750,000 | - | - | 450,750 |
| 1977 | 756,000 | - | - | 454,356 |
| 1978 | 763,000 | - | - | 458,563 |
| 1979 | 760,000 | - | - | 456,760 |
| 1980 | 750,000 | - | - | 450,750 |

* Source - Staff Report

Table 23

ESTIMATED ENROLLMENTS BY TYPE OF INSTITUTION,
1973 To 1980, ASSUMING NO CHANGE IN RATIO OF ENROLLMENTS TO
POPULATION OR DISTRIBUTION OF STUDENTS BY TYPE OF INSTITUTION *

| | Total Estimated Enrollment | Public 4-Year | Public 2-Year | Private |
|---|---|---|---|---|
| 1973 | 421,902 | 226,983 | 142,181 | 52,738 |
| 1974 | 431,518 | 232,157 | 145,422 | 53,939 |
| 1975 | 440,533 | 237,007 | 148,460 | 55,066 |
| 1976 | 450,750 | 242,504 | 151,903 | 56,343 |
| 1977 | 454,356 | 244,444 | 153,118 | 56,794 |
| 1978 | 458,563 | 246,707 | 154,536 | 57,320 |
| 1979 | 456,760 | 245,737 | 153,928 | 57,095 |
| 1980 | 450,750 | 242,504 | 151,903 | 56,343 |

* Source - Staff Report

Table 24

COMPARISON OF ENROLLMENT PROJECTIONS *

| Year | Actual | State Plan | 1971-72 Report | Current Report |
|---|---|---|---|---|
| 1970 | 395,703 | 397,300 | - | - |
| 1971 | 403,559 | - | 423,000 | - |
| 1972 | 406,037 | - | 443,000 | - |
| 1973 | - | - | 462,000 | 421,902 |
| 1974 | - | - | 478,000 | 431,518 |
| 1975 | - | 541,200 | 492,000 | 440,533 |
| 1976 | - | - | 508,000 | 450,750 |
| 1977 | - | - | 517,000 | 454,356 |
| 1978 | - | - | 521,000 | 458,563 |
| 1979 | - | - | 525,000 | 456,760 |
| 1980 | - | 542,000 | 530,000 | 450,750 |

* Source - State Plan for Higher Education in Michigan, Financial Requirements of Public Baccalaureate Institutions and Public Community Colleges-1971, and Staff Report

## Part VI

## MANPOWER REQUIREMENTS AND POSSIBLE EFFECTS

It is becoming increasingly important for officials at both state and institutional levels to examine information about manpower requirements and related developments in making decisions related to expansion or contraction of educational programs.

### Manpower Requirements

The latest manpower planning report prepared by the Michigan Employment Security Commission for the fiscal year 1974 provides detailed information about population characteristics and employment developments in Michigan.

Highlights of this report indicate "substantial employment recovery and a moderate easing in unemployment in Michigan for the coming year." It is also stated that professional and technical occupations "are anticipated to show the steepest uptrend in 1973".

Perhaps the most important section of the report in terms of educational programs is the section describing the occupational outlook in Michigan through 1977. This section describes expected rates of growth for different types of employment in Michigan during the next few years. More detailed information is needed for educational decisions, but the report is useful in identifying general trends.

### Lifetime Learning

An important development in recent years is the concept of "lifetime learning" and its implications for higher education.

A good example of this thinking is the topic of a recent address by Dr. Ernest L. Boyer, Chancellor of the State University of New York.

Dr. Boyer says the current pattern of living and learning is divided into stages related to the "happy play" of early childhood, the "formal learning" from ages 12 to 20, the period of "work," and the "years of retirement." He then describes some "major shifts" that "will dramatically change both the length of formal learning and the population to be served." Finally, he outlines a model for lifetime learning during the years 5 to 80.

## Part VII

## CONCLUSIONS

Several conclusions can be drawn from the information presented in this report.

First, it is obvious that enrollments at institutions of higher education in Michigan are no longer growing as they have done in the past and in some cases are actually declining.

Second, the percentage of students enrolled at public 2-year colleges continues to grow in relation to enrollments at public 4-year institutions and private institutions.

Third, degrees and awards conferred by institutions of higher education provides a basis for further study of problems related to retention of students as well as employment possibilities.

Fourth, substantial progress has been made by the State Board of Education during the past two years in developing policies and programs for obtaining greater equality of access to higher education in Michigan.

Fifth, enrollment projections based on data presented in the report indicate that enrollments in 1975 and 1980 are likely to be substantially lower than earlier projections.

Sixth, further study of information about manpower requirements and concepts such as lifetime learning is needed by state and institutional officials in making decisions about expansion or contraction of educational programs.

In short, it is clear that higher education in Michigan faces new uncertanties and new challenges in the years ahead. It is imperative, therefore, that state and institutional officials proceed cautiously in proposing, approving, or financing new programs and new facilities. It is euqally important for them to examine carefully existing programs and facilities to determine how adjustments can be made in the most effective and efficient manner.